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ABSTRACT

The primary emphasis of this book is on new or revised earth science activities that promote concept development rather than mere verification of concepts learned by passive means. Chapter 2 describes philosophies, strategies, methods, and techniques to guide preservice and inservice teachers, school building administrators, and curriculum developers in their efforts to increase student achievement in elementary school science. The investigations included therein are based on a problem solving procedure which is discussed in Chapter 3. Chapter 4 highlights the activity format, the cooperative learning method, and assessing readiness for activities and mastery of concepts. Chapters 5 to 14 contain Earth science activities based on major themes including predictable relationships between the sun, earth, and moon; daily and yearly Earth-Sun relationships; weather; constant motion of the Earth's waters; earthquakes; constant motion of lithospheric plates causing folding, faulting, and mountain building; fossils; weathering, erosion, and deposition; quality of the soil, air, and water; and improving the environment. Chapter 15 provides a unique presentation of the development and use of authentic assessment procedures by classroom teachers. Contains references and lists of resources including science periodicals, environmental and science teacher organizations, and science supply houses. (JRH)

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